

Appl. No. 09/727,174
Amdt. dated January 29, 2003
Reply to Office action of 10/29/2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Please amend the claims as follows:

Claims 1-31 previously cancelled.

32. (previously presented) A method of operating a smart card and smart card terminal to simulate asynchronous communication between the smart card and smart card terminal such that either the smart card or the smart card terminal may operate as master and the other operating as slave wherein the smart card and smart card terminal communicate in a half-duplex protocol, comprising:

① sending a first message from the smart card terminal to the smart card, wherein if the smart card terminal has no data to send the smart card, the first message is a polling packet;

receiving the first message at the smart card;

upon receipt of the first message, if the smart card has data to send, sending a second message from the smart card to the terminal containing a length of data indication;

upon receipt of the second message from the smart card, sending a third message from the terminal to the smart card as an indication from the terminal to the smart card to commence sending the data; and

sending a message containing the data from the smart card to the terminal.

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33. (previously presented) The method of Claim 32 wherein the indication from the terminal is a special packet having a length which is equal to the length indicated by the smart card.

34. (previously presented) The method of Claim 32 further comprising marking each message with a unique sequence number correlating a sequence of messages.

35. (previously presented) The method of Claim 34 further comprising the step of deferring response to a message while sending other messages from the smart card to the terminal.

36. (previously presented) The method of Claim 35, when a response to a deferred message is ready, sending a response to the deferred message by marking the message with the sequence number of the deferred message.

37. (currently amended) A smart card comprising:

means configured to communicate in an asynchronous manner to a smart card terminal; and

means operable to use the means configured to communicate in an asynchronous manner to request resources selected from the set including terminal resources, host resources, and network resources; and

means operable to receive a polling packet from the terminal and in response to receiving a polling packet, operable to transmit an indication that smart card desires to transmit data to the terminal.

38. (canceled)

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39. (canceled)

40. (canceled)

41. (currently amended) The smart card of Claim 37 wherein the further comprising means operable to receive a polling packet from the terminal and in response to receiving a polling packet, operable to transmit indication that the smart card desires to transmit data contains an indication of the length of data the smart card desires to send to the terminal.

42. (currently amended) A computer system comprising:

a terminal for communicating with smart cards;

the terminal having a means for simulating asynchronous communication with the smart card and a means for transmitting a polling packet to the smart card.

43. (canceled)

44. (currently amended) The computer system of Claim 43 42 wherein the terminal further comprises means for receiving a data length indication from a smart card.

45. (previously presented) The computer system of Claim 44 wherein the terminal further comprises means for transmitting to the smart card an indication to commence transmitting data having the length indicated by the smart card in the data length indication.

46. (previously presented) The smart card of Claim 37 wherein the means configured to communicate in an asynchronous manner uses full duplex.

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47. (previously presented) The smart card of Claim 37 wherein the means configured to communicate in an asynchronous manner uses a standard packet protocol.

48. (previously presented) The smart card of Claim 37 wherein the means configured to communicate in an asynchronous manner uses a network packet protocol.

49. (previously presented) The smart card of Claim 37 wherein the network resources are identified using domain name services.

50. (previously presented) The smart card of Claim 37 wherein the network resources are accessed by remote message invocation.

51. (previously presented) The smart card of Claim 37 wherein the network resources are accessed by remote procedure call.

52. (previously presented) The smart card of Claim 37 wherein the network resources enable network games.

53. (previously presented) The smart card of Claim 37 wherein the network resources enable remote diagnostics.